Form Approved OMB No. 44-R1387

Required under USDL Safety and Health Regulations for Ship Repairing,

		SECT	ION I				
MANUFACTURER'S NAME Racon Incorporated				EMERGENCY TELEPHONE NO. 316-524-3245			
ADDRESS (Number, Street, City, State, and ZIP Co P. O. Box 198, 6040 South R CHEMICAL NAME AND SYNONYMS Dichlorodifluoromethane	<i>de)</i> Lidge	e Road			01 onyms		
Halogenated Hydrocarbons			Racon-				
SECTION	11 -	HAZAF	RDOUS INGREDIE	NTS			
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND N		ATINGS	%	TLV (Units)
PIGMENTS NA TOUR TOUR NA		<u> </u>	BASE METAL		N/A		_10111131
CATALYST N/A			ALLOYS	1	N/A		
VEHICLE N/A			METALLIC COATING	is	N/A		
SOLVENTS N/A			FILLER METAL PLU5 COATING OR C	ORE FLUX	N/A		
ADDITIVES N/A			OTHERS		N/A		
OTHERS N/A				· · · · <u> </u>			-
HAZARDOUS MIXTURES	SOFC	THER LI	QUIDS, SOLIDS, OR GA	ASES ·		%	TLV (Units)
Racon-12 is essentially a p			und.				
topique de Barilla de Caralla de		• .		.·		:	1
nagranijelini v sakolstv				. , .			
And the second second second second second		,					,
SEC	TIOI	V III - I	PHYSICAL DATA	in the second			
BOILING POINT (°F.) @ 1 ATM	-2	21.6	SPECIFIC GRAVITY	(H ₂ O=1)	70 F	1	.31
VAPOR PRESSURE (psia) @ 77° F	ع	94.51	PERCENT, VOLATILI BY VOLUME (%)	E @ 770F	& 1 ATM	1	00345
vapor density (air=1)@ 1 ATM & 77°	F.	4.25	EVAPORATION RAT	E	a association	N	/A
SOLUBILITY IN WATER	s]	Light	_	1. 1.	-1.		
APPEARANCE AND ODOR Colorless	liqı	ıid	very slight e	thereal	odor to	odo	rless
SECTION IV -	FIR	E AND	EXPLOSION HAZ	ARD DATA	\		
FLASH POINT (Method used) Non-flamma	ble		FLAMMABLE LIN	None	Lel	-	Uel
EXTINGUISHING MEDIA N/A		· · · · · ·	······ • ···· · · · · · · · · · · · · · · · ·			•	
SPECIAL FIRE FIGHTING PROCEDURES	/A						-
riskering Costern of the cost of							,
UNUSUAL FIRE AND EXPLOSION HAZARDS	Shi	ipped	and stored as	a liquef	ied, com	pre	ssed
			The informati	di ee ee	ic Maton	ial	Safet
gas under pressure.			The informati sheet relates relate to its	only to	Racon-1	2 au	ıd doe

CEP. Mech - Glea SECTION V - HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE 1000 ppm (estimated)
EFFECTS OF OVEREXPOSURE Light-headedness, giddiness, shortness of breath,
possible narcosis, possible cardiac arrhythmias at high concentrations.
EMERGENCY AND FIRST AID PROCEDURES Inhalation: Remove to fresh air, call a
physician, do not give epinephrine or similar drugs. Skin or eye contact:
Flush with water.

× .			SECTIO	ON VI - REACTIVITY DATA				
STABILITY		UNSTABLE		CONDITIONS TO AVOID Open flames and high temperatures.				
والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج	STA	_	Х					
incompatability powdered Al Hazardous deco	<u>, zi</u>	nc, bery	<u> 11 ium, </u>	in elastomers, alkali or alkaline earth metals, n, etc. Malogens, halogen acids and carbonyl halides.				
HAZARDOUS POLYMERIZATION	F 1 1	MAY OCCUP		CONDITIONS TO AVOID				
	•	WILL NOT	CCUR	X				
management to be a first of the second	`	- 						

· Service	
ا المالية	SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAN	Ventilate area, remove open
flames and	evacuate premises in case of large spills.
and the state of the state of	
WASTE DISPOSAL	Permit to evaporate at a rate not to exceed TLV.
All Control of the Co	

All the second s	SECTION VIII - SPECIAL PI	ROTECTION IN	FORMATION
RESPIRATORY PRO	TECTION (Specify type) in well ventilated areas.	Usė air ma	sks in high concentrations.
VENTILATION	LOCAL EXHAUST For low conce	SPECIAL	
	MECHANICAL (General) For large especially in low places.	releases,	OTHER :
PROTECTIVE GLOV When handli		FYE PROTECTION	ing liquid (See IX).
OTHER PROTECTIV	EEQUIPMENT		es e

SECTION IX - SPE	CIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store containers in a clean dry area.
Do not heat above 1250 F.	
отнек ркесачтіомs Excessive skin contact can produce d	efatting. Liquid contact with skin may
	or goggles should be worn when handling

this material.
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Form OSHA-20 Rev. May 72





U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

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MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

		SECT	TON I		·
MANUFACTURER'S NAME	EMERGENCY TELEPHO	EMERGENCY TELEPHONE NO.			
Rand Chemical Corporation 616-739					
ADORESS Number Street City State, and ZIP C P.O. Box 753, Muskegon, CHEN CAL NAME AND SYNORYMS WGlass Cleaner Concentra	odej Miç	higan	49443		. ۵- `
WGlass Cleaner Concentra	te			(H15, 11)	60 / 1
CHEMICAL PAMILY Aqueous Solution			Formulated Product	HIS IT	10 . This
SECTION	v 11 -	HAZAF	RDOUS INGREDIENTS		" No 1,
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	\ *	TLV (Units)
PIGMENTS		(01173)	BASE METAL		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
CATALYST			ALLOYS		
VEHICLE /			METALLIC COATINGS		
SCLVENTS Isopropanol	2 0	400	FILLER METAL PLUS COATING OR COPE FLUX		
ADDITIVES		i ,	OTHERS		
others Propylene glycol mor	nb m	ethv1	ether	10	100
`			QUIDS, SOLIDS, OR GASES	%	TLV (Units
<i>j</i>					10
None	:		,		
			,		
	CTIO	V 111 - F			
SEC.	CTIO		PHYSICAL DATA		
			SPECIFIC GRAVITY (H20=1)	T 0	. 98
BOILING POINT (°F.)			SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE	_ 1	98
BOILING POINT ([©] F.) VAPOR PRESSURE (mm Hg.)			SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE BY VOLUME (%)	_ 1	7.0
BOILING POINT (°F.) VAPOR PRESSURE (mm Hg.) VAPOR DENSITY (AIR=1)			SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (_Water =1)	_ 1	
BOILING POINT (°F.) VAPOR PRESSURE (mm Hg.) VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER	Co	mplete	SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (_Water=1)	_ 1	7.0
BOILING POINT (°F.) VAPOR PRESSURE (mm H3.) VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER APPEARANCE AND ODOR Clear blue	Co e li	mplete	SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (Water =1) Slight solvent odor.	_ 1	7.0
BOILING POINT (°F.) VAPOR PRESSURE (mm H3.) VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER APPEARANCE AND ODOR Clear blue SECTION IV -	Co e li	mplete	SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (_Water =1) Slight solvent odor. EXPLOSION HAZARD DATA	_ 1	1.0
BOILING POINT (°F.) VAPOR PRESSURE (mm H3.) VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER APPEARANCE AND ODOR Clear blue SECTION IV -	Co e li	mplete	SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (Water =1) Slight solvent odor.	_ 1	7.0
BOILING POINT (°F.) VAPOR PRESSURE (mm H3.) VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER APPEARANCE AND ODOR Clear blue SECTION IV -	Co e li	mplete	SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (_Water =1) Slight solvent odor. EXPLOSION HAZARD DATA	_ 1	1.0
BOILING POINT (F.) VAPOR PRESSURE (mm H3.) VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER APPEARANCE AND ODOR Clear blue SECTION IV - FLASH POINT (Method used) EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES	Co e li FIR	mplete quid; E AND {	SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (_Water =1) Slight solvent odor. EXPLOSION HAZARD DATA	_ 1	1.0
BOILING POINT (*F.) VAPOR PRESSURE (mm H3.) VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER APPEARANCE AND ODOR Clear blue SECTION IV - FLASH POINT (Method used) EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES	Co e li	mplete quid; E AND {	SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (_Water =1) Slight solvent odor. EXPLOSION HAZARD DATA	_ 1	1.0
BOILING POINT (°F.) VAPOR PRESSURE (mm H3.) VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER APPEARANCE AND ODOR Clear blue SECTION IV - FLASH POINT (Method used) EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES	Co e li FIR	mplete quid; E AND {	SPECIFIC GRAVITY (H20=1) PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (_Water =1) Slight solvent odor. EXPLOSION HAZARD DATA	_ 1	1.0

Cape

THRESHOLD CIMIT	VALUE			•				
EFFECTS OF OVER		Tn con	ovt-					
liritatio	n of eyes.	III SON	пе ехіт	reme cases,	nausea.			
				* * * * * * * * * * * * * * * * * * * *				
and conti	nuously for	IRES <u>Lye</u>	utes.	sh with fic	owing water imme al aid. Skin: v o fresh air if e	diately vash off		
occar. G	et medical	aid. I	ngesti	i: remove tu Ton: induce	vomiting if red	}IIects commended	1	
by physic	ian.	414 4	115000	,	Voma caris at 100	- Ollune ride d	· T	
		SECTION	VVI - R	EACTIVITY DA	TA			
STABILITY	UNSTABLE		CONDITIO	ONDITIONS TO AVOID .				
e segar Se	STABLE .	Х						
INCOMPATABILITY	Materials to avoid;							
HAZARDOUS DECO	MPOSITION PRODUC		ing ag	ents.				
11/12/11/2007		None	;					
HAZARDOUS	MAY DOCUR	₹		CONDITIONS TO	AVOID			
POLYMERIZATION	WILL NOT O	CCUR	-					
	<u> </u>	-	X	<u> </u>				
·								
	CECT	10011111	COUL	00 LEAK 0000	NEOUDEO.			
				OR LEAK PROC	EDURES		135	
STEPS TO BE TAKE	N IN CASE MATERIA	AL IS RELE	ASED CR S	SPILLED				
	sorbent. Re	emove w	rith ch	orrol .				
	301001101	SIIIO A C 11	T 011 31	.UVEI.	y	·····		
WASTE DISPOSAL M	ССНТЭ							
								
Burn i	n accordance	e with	loca1	laws.				
es .								
20 mg			ECIAL P	ROTECTION IN	IFORMATION			
RESPIRATORY PROT	rection Specify to breathe var	pe) pors fo	r prol	onged or re	peated periods.			
VENTILATION	LOCAL EXHAUST		· =		SPECIAL			
	MECHANICAL /Gen	ieral)			OTHER			
PROTECTIVE GLOVE	ES	•		EYE PROTECTION		<u> </u>		
OTHER PROTECTIVE	E DUNDAKE NIT			<u> </u>	Safety glasse	<u>s</u>		
OTHER PROTECTIVE	- EQUIPMENT				-		i	
								
	SE	CTION I	X - SPE	CIAL PRECAUT	IONS		- 1	

Keep container closed when not in use to prevent evaporation.

OTHER PRECAUTIONS

Do not take internally. Avoid contact with eyes. Keep away from

heat, spark or flame. Keep out of reach of children and incompetent

SECTION V - HEALTH HAZARD DATA

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING General good housekeeping and care.